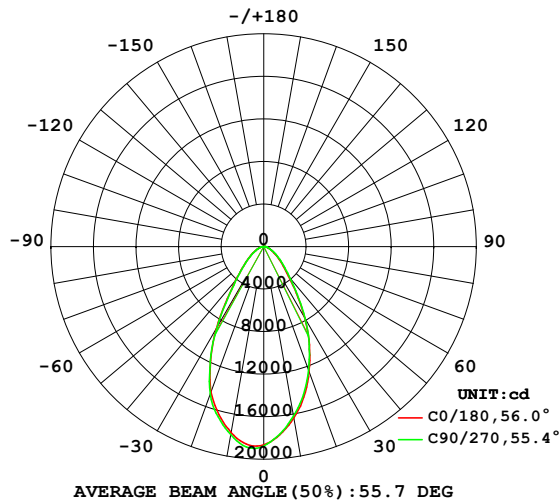


LUMINAIRE PHOTOMETRIC TEST REPORT

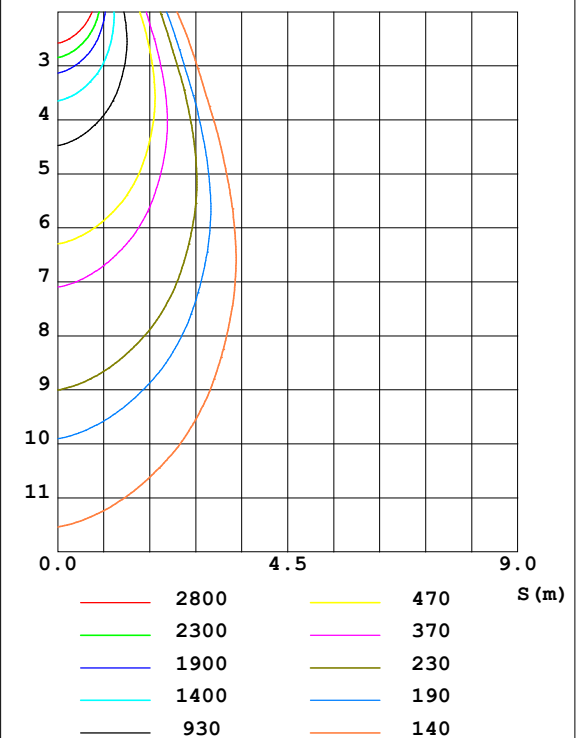
| | | |
|---|----------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\varnothing 260 \times H150 \text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\varphi 0.26$ | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 192.04 lm/W |
|------------------|-------------|------------------|--------|------------------------|----------|------------------|
| MODEL | UFO100W-60D | Imax(cd) | 19000 | S/MH(C0/180) | 0.80 | |
| NOMINAL POWER(W) | 101.5 | LOR(%) | 100.0 | S/MH(C90/270) | 0.79 | |
| RATED VOLTAGE(V) | 234 | TOTAL FLUX(lm) | 19492 | η UP,DN(C0-180) | 0.0,47.6 | |
| NOMINAL FLUX(lm) | 19492 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,52.4 | |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.75 | |
| TEST VOLTAGE(V) | 234.1 | η down(%) | 100.0 | CIBSE SHR MAX | 0.90 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C90 | C180 | C270 | | | | | γ | Φ zone | Φ total | %lum, lamp |
|----------|--|-------|-------|-------|--|--|--|--|----------|-------------|--------------|------------|
| 10 | 1635 | 1618 | 1776 | 1795 | | | | | 0- 10 | 1703 | 1703 | 8.74, 8.74 |
| 20 | 1248 | 1233 | 1453 | 1475 | | | | | 10- 20 | 4321 | 6024 | 30.9, 30.9 |
| 30 | 772.8 | 779.1 | 893.3 | 882.8 | | | | | 20- 30 | 5013 | 11037 | 56.6, 56.6 |
| 40 | 361.9 | 385.1 | 407.5 | 395.0 | | | | | 30- 40 | 3606 | 14643 | 75.1, 75.1 |
| 50 | 195.9 | 210.4 | 208.8 | 206.7 | | | | | 40- 50 | 2181 | 16823 | 86.3, 86.3 |
| 60 | 104.5 | 111.7 | 108.9 | 105.6 | | | | | 50- 60 | 1358 | 18182 | 93.3, 93.3 |
| 70 | 54.90 | 57.54 | 55.37 | 53.95 | | | | | 60- 70 | 781.2 | 18963 | 97.3, 97.3 |
| 80 | 23.47 | 24.87 | 22.91 | 21.66 | | | | | 70- 80 | 401.8 | 19365 | 99.3, 99.3 |
| 90 | 6.470 | 6.374 | 5.296 | 5.282 | | | | | 80- 90 | 127.1 | 19492 | 100, 100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY: $\times 10\text{cd}$ | | | | | | | | | UNIT: lm | | |

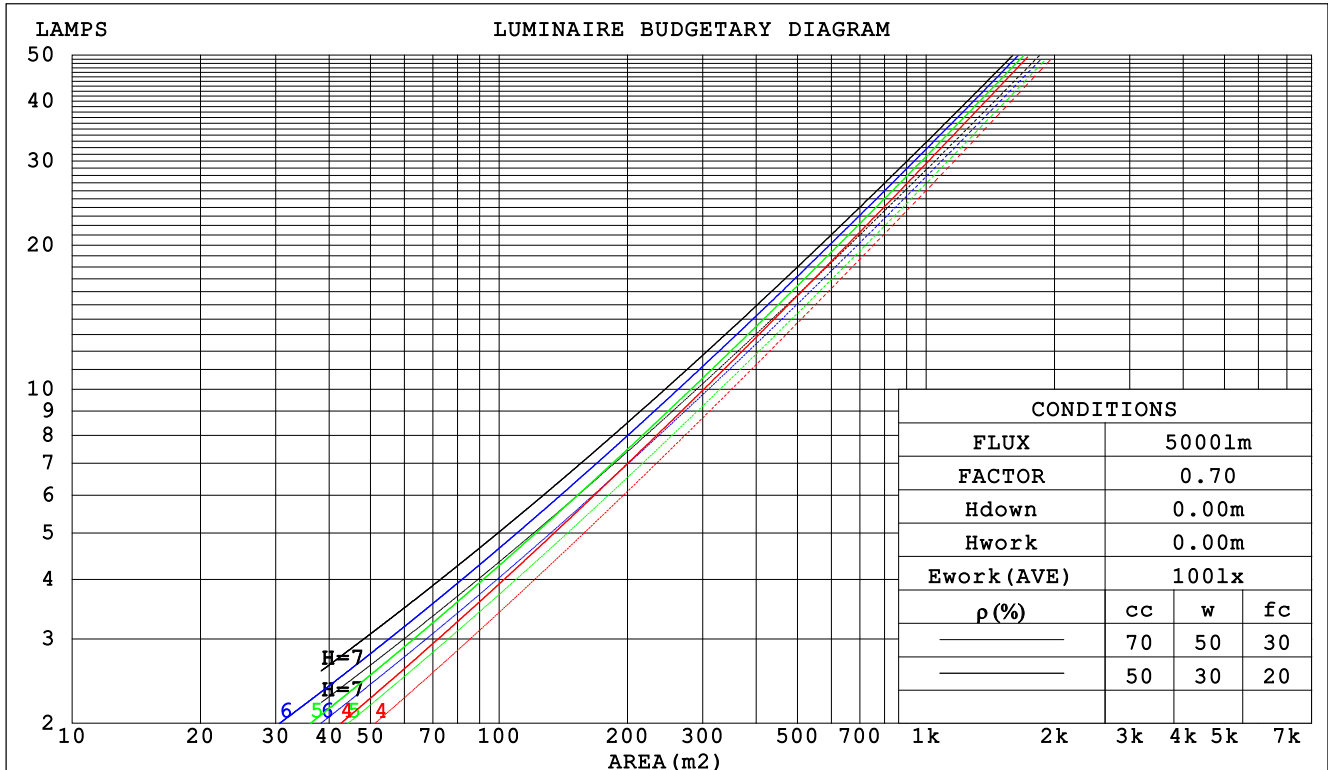
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---------------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 260 \times H150\text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.26$ | PROTECTION ANGLE: |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | Coefficients of Utilization(CU) | | | | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0 | 1.09 | 1.05 | 1.03 | 1.06 | 1.04 | 1.01 | 1.02 | 1.00 | .98 | .98 | .97 | .95 | .95 | .94 | .92 | .90 |
| 2.0 | .99 | .94 | .90 | .97 | .93 | .89 | .94 | .90 | .87 | .91 | .88 | .85 | .88 | .85 | .83 | .81 |
| 3.0 | .91 | .85 | .80 | .89 | .84 | .79 | .86 | .82 | .78 | .84 | .80 | .77 | .82 | .78 | .75 | .74 |
| 4.0 | .83 | .77 | .72 | .82 | .76 | .71 | .80 | .75 | .70 | .78 | .73 | .70 | .76 | .72 | .69 | .67 |
| 5.0 | .77 | .70 | .65 | .76 | .70 | .65 | .74 | .69 | .64 | .72 | .67 | .64 | .71 | .66 | .63 | .61 |
| 6.0 | .72 | .65 | .60 | .71 | .64 | .59 | .69 | .63 | .59 | .68 | .62 | .58 | .66 | .62 | .58 | .56 |
| 7.0 | .67 | .60 | .55 | .66 | .59 | .55 | .65 | .59 | .54 | .63 | .58 | .54 | .62 | .57 | .54 | .52 |
| 8.0 | .62 | .55 | .51 | .62 | .55 | .51 | .61 | .55 | .50 | .59 | .54 | .50 | .58 | .54 | .50 | .48 |
| 9.0 | .58 | .52 | .47 | .58 | .52 | .47 | .57 | .51 | .47 | .56 | .51 | .47 | .55 | .50 | .47 | .45 |
| 10.0 | .55 | .48 | .44 | .55 | .48 | .44 | .54 | .48 | .44 | .53 | .48 | .44 | .52 | .47 | .44 | .42 |



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 260 \times H150mm$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.26$ | PROTECTION ANGLE: |

| | | | | | | |
|-------------|-----------------------|----------------|----------------|----------------|----------------|---------------------------------|
| ρ_{cc} | 80% | 70% | 50% | 30% | 10% | 0 |
| ρ_w | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 0 |
| ρ_{fc} | 20% | 20% | 20% | 20% | 20% | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | Wall Exitance Coefficients(WEC) |
| 0.0 | | | | | | |
| 1.0 | .220 .125 .040 | .213 .122 .039 | .200 .115 .037 | .189 .109 .035 | .178 .103 .033 | |
| 2.0 | .210 .115 .035 | .204 .112 .035 | .193 .107 .033 | .183 .103 .032 | .173 .098 .031 | |
| 3.0 | .198 .105 .031 | .193 .103 .031 | .183 .099 .030 | .174 .096 .029 | .166 .092 .028 | |
| 4.0 | .186 .097 .028 | .182 .095 .028 | .173 .092 .027 | .166 .089 .027 | .158 .086 .026 | |
| 5.0 | .175 .089 .026 | .171 .088 .026 | .164 .085 .025 | .157 .083 .025 | .151 .081 .024 | |
| 6.0 | .165 .083 .024 | .162 .082 .024 | .155 .080 .023 | .149 .078 .023 | .144 .076 .022 | |
| 7.0 | .156 .077 .022 | .153 .076 .022 | .147 .075 .021 | .142 .073 .021 | .137 .071 .021 | |
| 8.0 | .148 .072 .020 | .145 .072 .020 | .140 .070 .020 | .135 .069 .020 | .131 .067 .020 | |
| 9.0 | .140 .068 .019 | .138 .067 .019 | .133 .066 .019 | .129 .065 .019 | .125 .064 .018 | |
| 10.0 | .134 .064 .018 | .131 .064 .018 | .127 .062 .018 | .123 .061 .017 | .120 .060 .017 | |

| | | | | | | |
|-------------|-----------------------|----------------|----------------|----------------|----------------|--|
| ρ_{cc} | 80% | 70% | 50% | 30% | 10% | 0 |
| ρ_w | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 0 |
| ρ_{fc} | 20% | 20% | 20% | 20% | 20% | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | Ceiling Cavity Exitance Coefficients(CCEC) |
| 0.0 | .190 .190 .190 | .163 .163 .163 | .111 .111 .111 | .064 .064 .064 | .020 .020 .020 | |
| 1.0 | .174 .157 .141 | .149 .135 .122 | .102 .093 .084 | .059 .054 .049 | .019 .017 .016 | |
| 2.0 | .161 .132 .108 | .138 .114 .093 | .095 .079 .065 | .055 .046 .038 | .018 .015 .012 | |
| 3.0 | .151 .114 .085 | .129 .098 .073 | .089 .068 .051 | .051 .040 .030 | .016 .013 .010 | |
| 4.0 | .141 .100 .068 | .121 .086 .059 | .083 .060 .041 | .048 .035 .025 | .016 .011 .008 | |
| 5.0 | .133 .088 .055 | .114 .076 .048 | .079 .053 .034 | .046 .031 .020 | .015 .010 .007 | |
| 6.0 | .126 .079 .046 | .108 .069 .040 | .075 .048 .028 | .043 .028 .017 | .014 .009 .006 | |
| 7.0 | .119 .072 .039 | .103 .062 .034 | .071 .044 .024 | .041 .026 .014 | .013 .008 .005 | |
| 8.0 | .113 .066 .034 | .098 .057 .029 | .068 .040 .021 | .039 .024 .012 | .013 .008 .004 | |
| 9.0 | .108 .061 .029 | .093 .053 .025 | .064 .037 .018 | .038 .022 .011 | .012 .007 .004 | |
| 10.0 | .103 .057 .026 | .089 .049 .022 | .062 .035 .016 | .036 .020 .009 | .012 .007 .003 | |

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks:

Uncorrected UGR Table

| | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|----------------------|------|------|------|------|-------------------|------|------|------|------|
| NAME: LED High Bay | | | | | TYPE: | | | | | WEIGHT: | | | | |
| DIM.: $\varnothing 260 \times H150\text{mm}$ | | | | | SPEC.: | | | | | SERIAL No.: | | | | |
| MFR.: | | | | | SUR.: $\varphi 0.26$ | | | | | PROTECTION ANGLE: | | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | | | | |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | | | | |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | | | |
| Room dimensions | | | | | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | | | | | 24.2 | 25.4 | 24.5 | 25.6 | 25.7 | 24.5 | 25.6 | 24.7 | 25.8 | 26.0 |
| 3H | | | | | 24.9 | 25.9 | 25.1 | 26.1 | 26.3 | 25.1 | 26.2 | 25.4 | 26.4 | 26.6 |
| 4H | | | | | 25.1 | 26.1 | 25.4 | 26.4 | 26.6 | 25.4 | 26.4 | 25.7 | 26.6 | 26.8 |
| 6H | | | | | 25.4 | 26.3 | 25.7 | 26.5 | 26.8 | 25.6 | 26.5 | 25.9 | 26.8 | 27.0 |
| 8H | | | | | 25.4 | 26.3 | 25.7 | 26.6 | 26.9 | 25.7 | 26.6 | 26.0 | 26.8 | 27.1 |
| 12H | | | | | 25.5 | 26.3 | 25.8 | 26.6 | 26.9 | 25.7 | 26.6 | 26.1 | 26.9 | 27.1 |
| 4H 2H | | | | | 24.5 | 25.5 | 24.8 | 25.7 | 25.9 | 24.7 | 25.7 | 25.0 | 25.9 | 26.1 |
| 3H | | | | | 25.3 | 26.2 | 25.6 | 26.4 | 26.7 | 25.5 | 26.4 | 25.8 | 26.6 | 26.9 |
| 4H | | | | | 25.7 | 26.5 | 26.0 | 26.8 | 27.1 | 25.9 | 26.7 | 26.2 | 27.0 | 27.3 |
| 6H | | | | | 26.0 | 26.7 | 26.4 | 27.0 | 27.4 | 26.2 | 26.9 | 26.6 | 27.3 | 27.6 |
| 8H | | | | | 26.1 | 26.8 | 26.5 | 27.1 | 27.5 | 26.4 | 27.0 | 26.8 | 27.4 | 27.7 |
| 12H | | | | | 26.2 | 26.8 | 26.6 | 27.2 | 27.6 | 26.4 | 27.0 | 26.9 | 27.4 | 27.8 |
| 8H 4H | | | | | 25.8 | 26.5 | 26.2 | 26.8 | 27.2 | 26.0 | 26.6 | 26.4 | 27.0 | 27.4 |
| 6H | | | | | 26.3 | 26.8 | 26.7 | 27.2 | 27.6 | 26.5 | 27.0 | 26.9 | 27.4 | 27.8 |
| 8H | | | | | 26.5 | 26.9 | 26.9 | 27.3 | 27.8 | 26.7 | 27.1 | 27.1 | 27.5 | 28.0 |
| 12H | | | | | 26.6 | 27.0 | 27.1 | 27.4 | 27.9 | 26.8 | 27.2 | 27.3 | 27.7 | 28.1 |
| 12H 4H | | | | | 25.8 | 26.4 | 26.2 | 26.8 | 27.2 | 26.0 | 26.6 | 26.4 | 26.9 | 27.3 |
| 6H | | | | | 26.3 | 26.8 | 26.7 | 27.2 | 27.6 | 26.5 | 26.9 | 26.9 | 27.4 | 27.8 |
| 8H | | | | | 26.5 | 26.9 | 27.0 | 27.4 | 27.8 | 26.7 | 27.1 | 27.2 | 27.6 | 28.0 |
| Variations with the observer position at spacings: | | | | | | | | | | | | | | |
| S = 1.0H | | | | | + 0.5 / - 0.7 | | | | | + 0.5 / - 0.7 | | | | |
| 1.5H | | | | | + 0.6 / - 0.5 | | | | | + 0.6 / - 0.4 | | | | |
| 2.0H | | | | | + 1.0 / - 0.8 | | | | | + 1.0 / - 0.8 | | | | |

CIE Pub.117 Corrected 19492 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.3)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks:

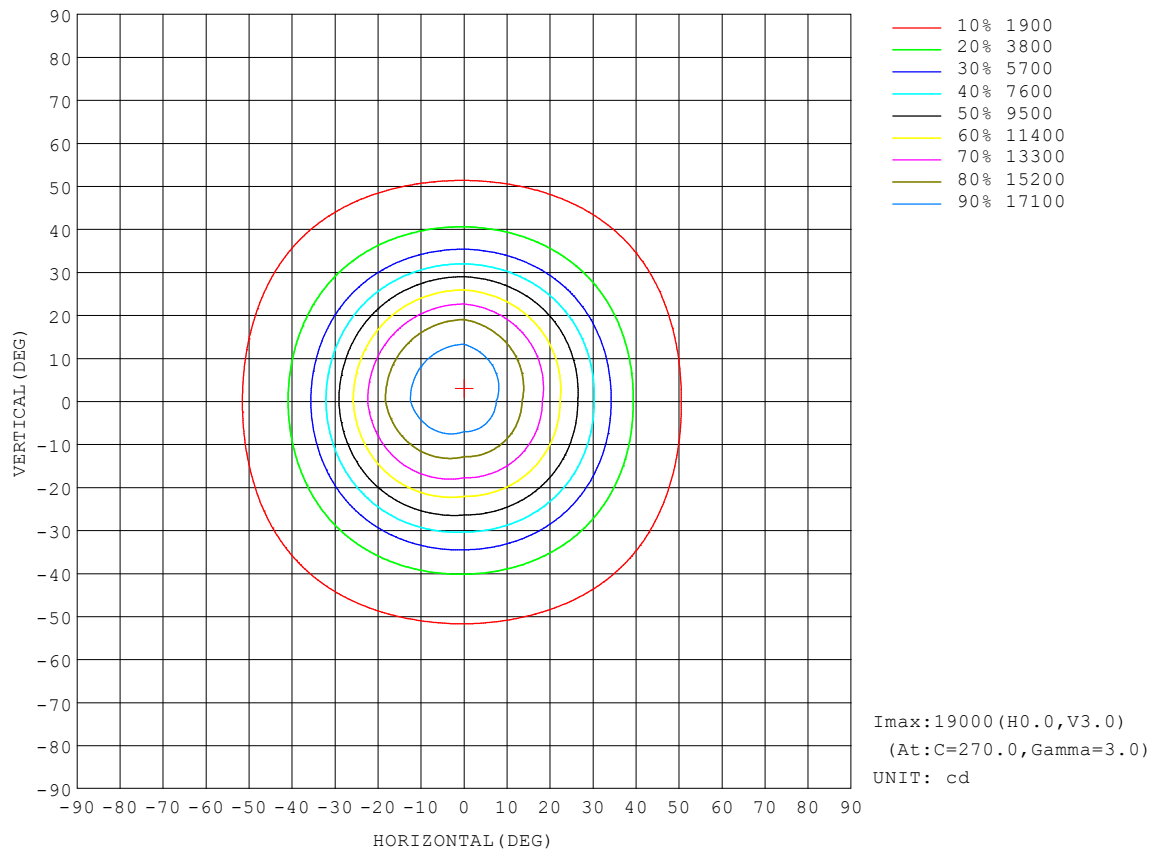
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

| | | |
|---------------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 260 \times H150\text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.26$ | PROTECTION ANGLE: |

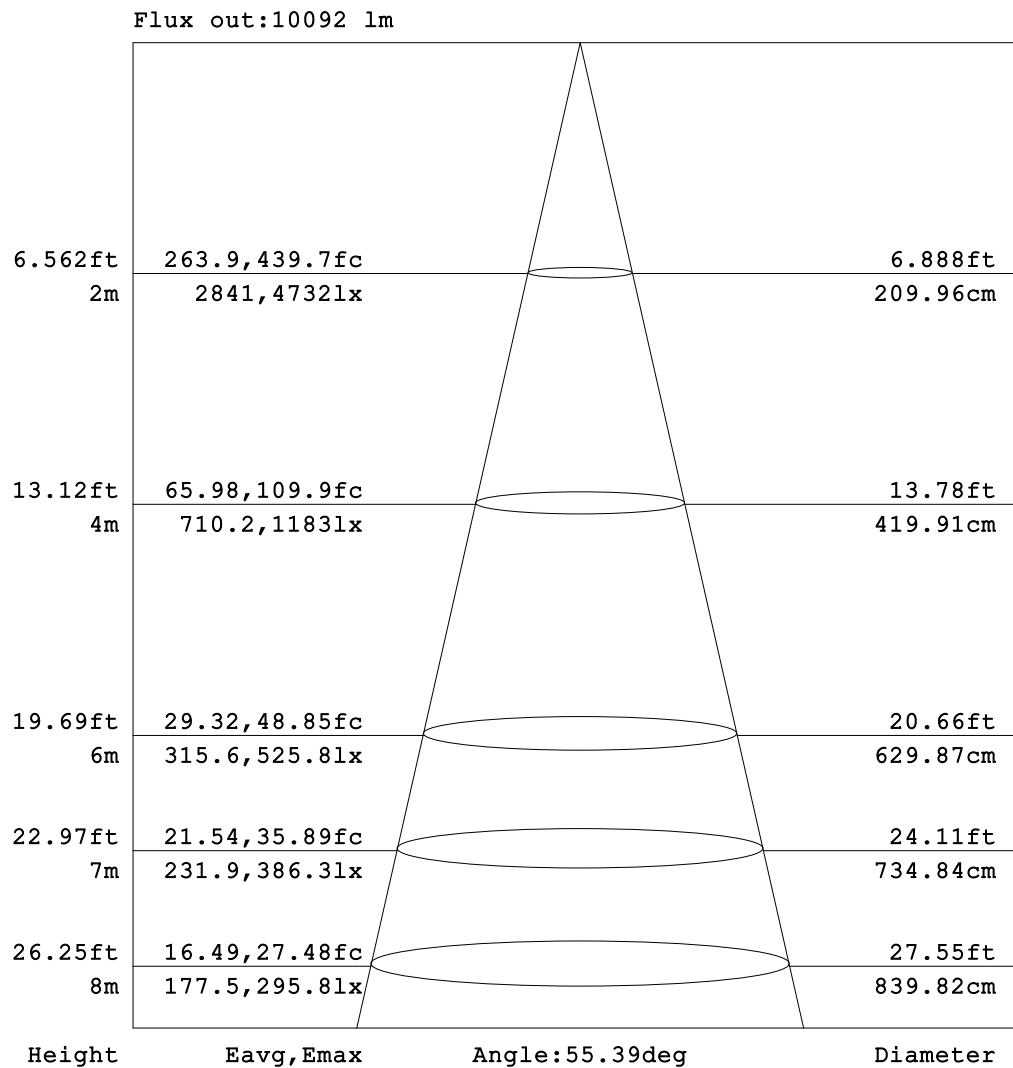


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---------------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 260 \times H150\text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.26$ | PROTECTION ANGLE: |



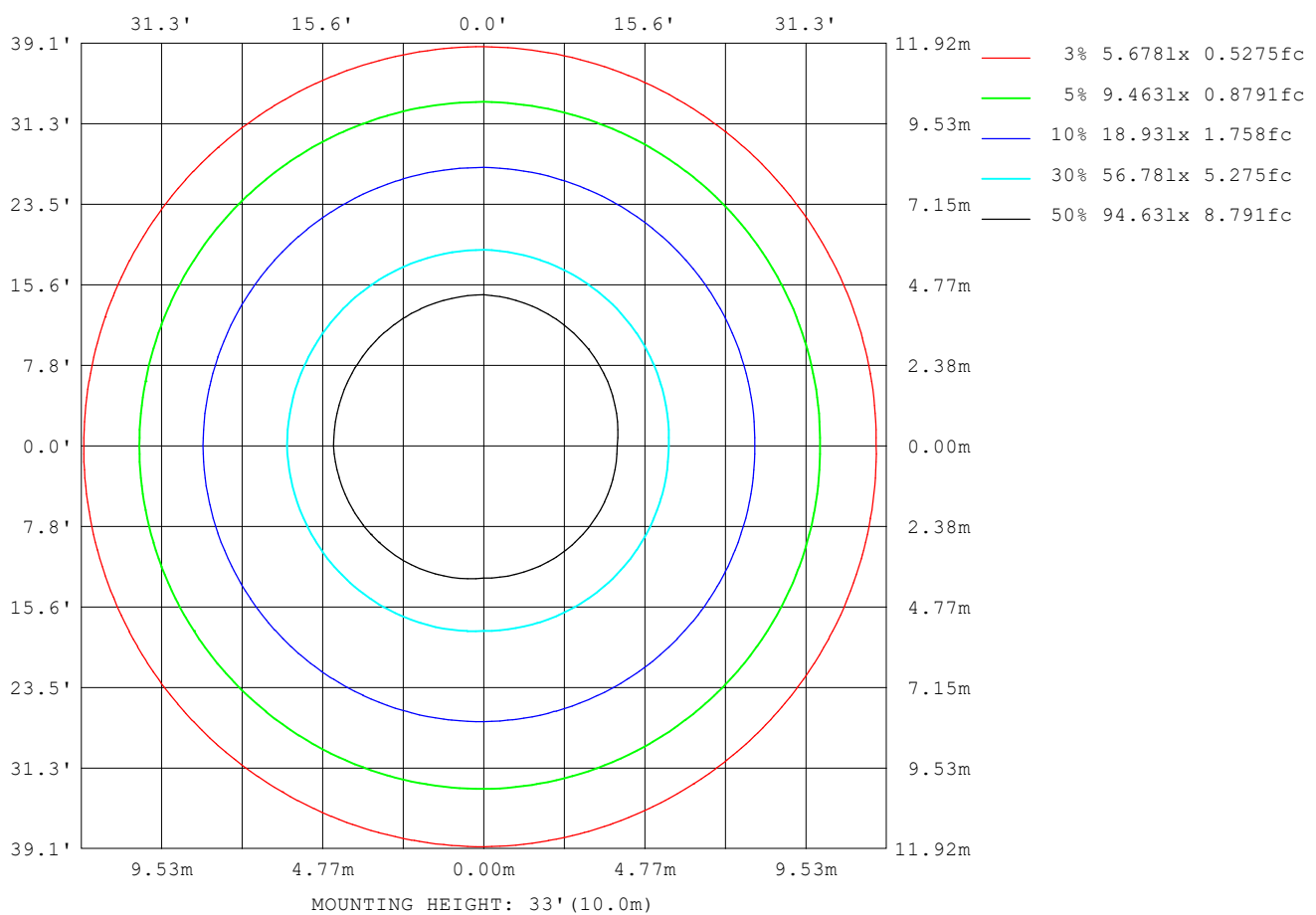
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

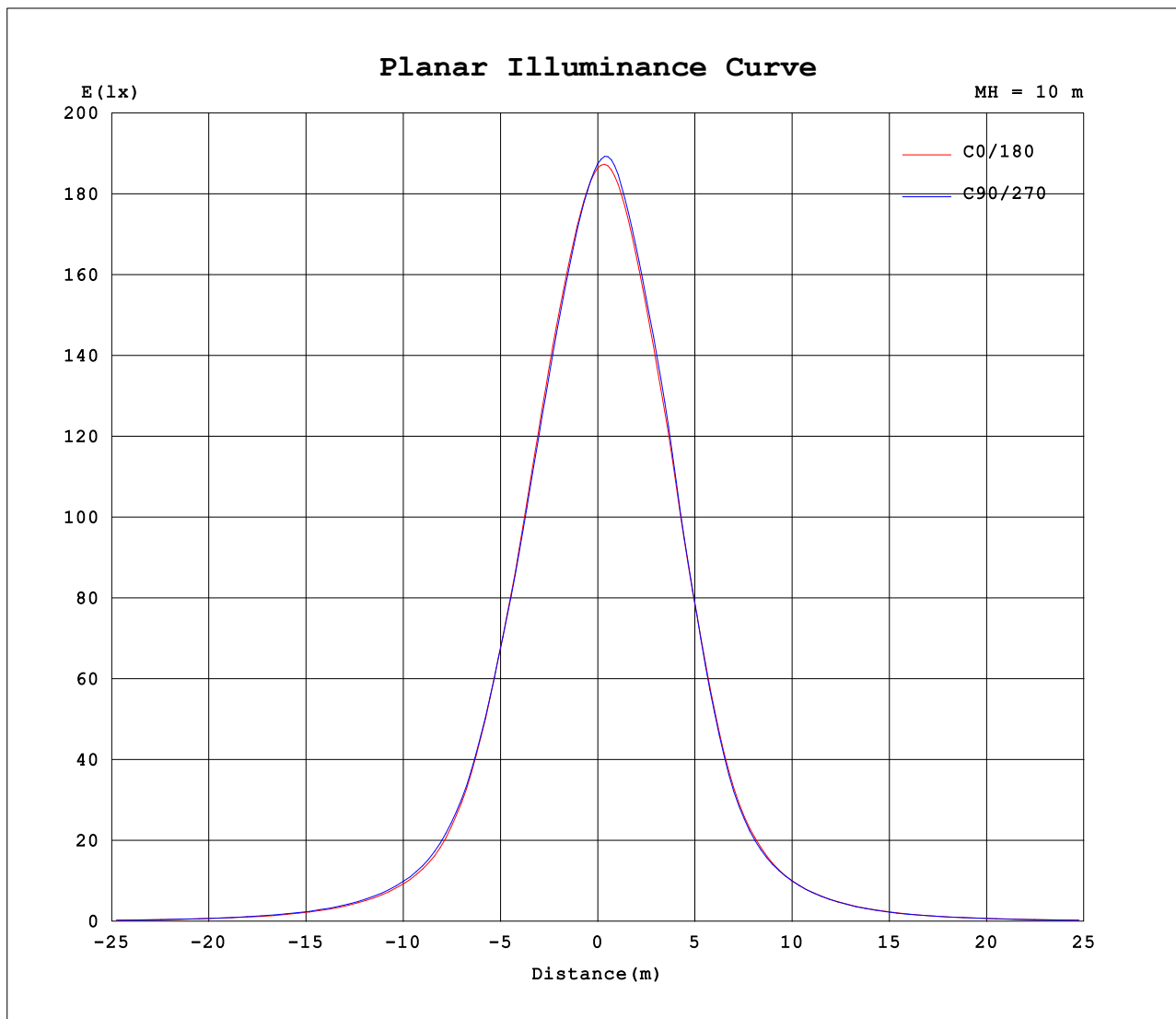
| | | |
|---------------------------------------|-------------------|-------------------|
| NAME: LED High Bay | TYPE: | WEIGHT: |
| DIM.: $\phi 260 \times H150\text{mm}$ | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: $\phi 0.26$ | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

```